#### Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (Original) A method in a data processing system for automatically distributing and installing software file packages throughout a multi-tiered computer architecture hierarchy, said hierarchy including a global tier, a hub tier that is below said global tier, and a target tier that is below said hub tier, said method comprising the steps of:

receiving, within a global computer system that is located in said global tier, a distribution request to distribute a file package to a target computer system that is located in said target tier;

starting, by said global computer system, a distribution process in said hub computer system; distributing said file package and an installation process from said global computer system to said hub computer system that is located in said hub tier;

automatically distributing said file package and said installation process to said target computer system from said hub computer system utilizing said distribution process; and

automatically installing, by said target computer system, said file package utilizing said installation process.

2. (Original) The method according to claim 1, further comprising the steps of: providing a three-tier *CORBA* network, said *CORBA* network including a hub *CORBA* ORB coupled to a second spoke *CORBA* ORB, and said spoke *CORBA* ORB being coupled to a gateway *CORBA* ORB, wherein said hub *CORBA* ORB occupies said hub tier of said architecture, said spoke *CORBA* ORB occupies a spoke tier of said architecture, said spoke tier between said hub tier and a gateway tier, and said gateway *CORBA* ORB occupies said gateway tier, said gateway tier being located between said gateway tier and said target tier; and

coupling said global computer system to said three-tier *CORBA* network, said global computer system occupies a top tier of said architecture over said first tier, said global computer system functioning as a *CORBA* ORB and treating said hub *CORBA* ORB as a managed node.

3. (Original) The method according to claim 1, further comprising the steps of: assigning a unique request identifier to said distribution request; and

tracking processing of said distribution request as it is processed by said global computer system, said hub computer system, and said target computer system using said unique request identifier.

- 4. (Original) The method according to claim 1, further comprising the steps of:

  determining by said global computer system whether said distribution of said file package and
  said installation process from said global computer system to said hub computer system was successful;

  in response to a determination that said distribution was unsuccessful, re-attempting said
  distribution.
- 5. (Original) The method according to claim 1, further comprising the steps of: including a queue within said global computer system for storing distribution requests; in response to receiving said distribution request, placing said distribution request in said queue; and processing a next request from said queue utilizing said global computer system.
- 6. (Original) The method according to claim 5, further comprising the steps of:

  determining by said global computer system whether said distribution of said file package and said installation process from said global computer system to said hub computer system was successful; in response to a determination that said distribution was unsuccessful, re-queueing said distribution request by restoring said distribution request in said queue; and said global computer system making another attempt to distribute said distribution request without requiring that said distribution request be resubmitted to said global computer system.
- 7. (Original) The method according to claim 1, further comprising the steps of: in response to receiving said distribution request within said global computer system, locking, by said global computer system, said hub computer system to prevent said hub computer system from processing other requests while said hub computer system is processing said distribution request.
- 8. (Original) The method according to claim 7, further comprising the steps of: locking said hub computer system using a unique request identifier that identifies said distribution request.

9. (Original) The method according to claim 7, further comprising the steps of:

determining whether said hub computer system is available prior to said global computer system locking said hub computer system;

in response to a determination that said hub computer system is unavailable, waiting until said hub computer system becomes available; and

in response to a determination that said hub computer system is available, locking said hub computer system.

10. (Original) The method according to claim 1, further comprising the steps of:

including a plurality of file package requests within said distribution request, each one of said file package requests being a request to either install a particular file package or remove a particular file package; and

including in said distribution request an installation script for each one of said file requests that is a request to install a particular file package.

11. (Original) The method according to claim 1, further comprising the steps of:

receiving, within said global computer system that is located in said global tier, a distribution request to distribute a plurality of file package requests to a target computer system that is in said target tier;

each one of said file package requests being a request to either install a particular file package on said target or to remove a particular file package from said target;

including in said distribution request an installation script for each one of said file requests that is a request to install a particular file package;

starting, by said global computer system, a distribution process in said hub computer system; distributing said plurality of file packages and an installation process from said global computer system to said hub computer system that is located in said hub tier;

utilizing said distribution process within said hub to automatically distribute to said target computer system ones of said file package requests that are requests to remove a particular file package from said target computer system;

automatically removing, by said target computer system, said particular file for each of said ones of said file package requests that are requests to remove a particular file;

utilizing said distribution process within said hub to automatically distribute to said target computer system ones of said file package requests that are requests to install a particular file package on said target computer system;

automatically installing, by said target computer system, said particular file for each of said ones of said file package requests that are requests to install a particular file; and

said removal requests being executed prior to said installation requests.

12. (Original) A data processing system for automatically distributing and installing software file packages throughout a multi-tiered computer architecture hierarchy, said hierarchy including a global tier, a hub tier that is below said global tier, and a target tier that is below said hub tier, said system comprising:

a global computer system that is located in said global tier receiving a distribution request to distribute a file package to a target computer system that is located in said target tier;

said global computer system starting a distribution process in said hub computer system; said global computer system distributing said file package and an installation process to said hub computer system that is located in said hub tier;

said hub computer system utilizing said distribution process to automatically distributing said file package and said installation process to said target computer system; and

said target computer system automatically installing said file package utilizing said installation process.

13. (Original) The system according to claim 12, further comprising:

a three-tier *CORBA* network, said *CORBA* network including a hub *CORBA* ORB coupled to a second spoke *CORBA* ORB, and said spoke *CORBA* ORB being coupled to a gateway *CORBA* ORB, wherein said hub *CORBA* ORB occupies said hub tier of said architecture, said spoke *CORBA* ORB occupies a spoke tier of said architecture, said spoke tier between said hub tier and a gateway tier, and said gateway *CORBA* ORB occupies said gateway tier, said gateway tier being located between said gateway tier and said target tier; and

said global computer system coupled to said three-tier *CORBA* network, said global computer system occupies a top tier of said architecture over said first tier, said global computer system functioning as a *CORBA* ORB and treating said hub *CORBA* ORB as a managed node.

14. (Previously Presented) The system according to claim 12, further comprising:

a unique request identifier assigned to said distribution request; and said unique request identifier for tracking processing of said distribution request as it is processed by said global computer system, said hub computer system, and said target computer system.

15. (Previously Presented) The system according to claim 12, further comprising: said global computer system determining whether said distribution of said file package and said installation process from said global computer system to said hub computer system was successful; in response to a determination that said distribution was unsuccessful, said global computer system re-attempting said distribution.

16. (Previously Presented) The system according to claim 12, further comprising:
a queue included within said global computer system for storing distribution requests;
in response to receiving said distribution request, said distribution request being placed in said queue; and
said global computer system processing a next request from said queue.

17. (Original) The system according to claim 16, further comprising:
said global computer system determining whether said distribution of said file package and said installation process from said global computer system to said hub computer system was successful; in response to a determination that said distribution was unsuccessful, said distribution request being re-queueing said distribution request by restoring said distribution request in said queue; and said global computer system making another attempt to distribute said distribution request without requiring that said distribution request be resubmitted to said global computer system.

- 18. (Previously Presented) The system according to claim 12, further comprising:
  in response to receiving said distribution request within said global computer system, said global
  computer system locking said hub computer system to prevent said hub computer system from processing
  other requests while said hub computer system is processing said distribution request.
- 19. (Original) The system according to claim 18, further comprising: said hub computer system being locked using a unique request identifier that identifies said distribution request.

# 20. (Original) The system according to claim 18, further comprising:

said global computer system determining whether said hub computer system is available prior to said global computer system locking said hub computer system;

in response to a determination that said hub computer system is unavailable, said global computer system waiting until said hub computer system becomes available; and

in response to a determination that said hub computer system is available, said global computer system locking said hub computer system.

## 21. (Previously Presented) The system according to claim 12, further comprising:

said distribution request including a plurality of file package requests, each one of said file package requests being a request to either install a particular file package or remove a particular file package; and

said distribution request including an installation script for each one of said file requests that is a request to install a particular file package.

### 22. (Previously Presented) The system according to claim 12, further comprising:

said global computer system that is located in said global tier receiving a distribution request to distribute a plurality of file package requests to a target computer system that is in said target tier;

each one of said file package requests being a request to either install a particular file package on said target or to remove a particular file package from said target;

said distribution request including an installation script for each one of said file requests that is a request to install a particular file package;

said global computer system starting a distribution process in said hub computer system;

said global computer system distributing said plurality of file packages and an installation process to said hub computer system that is located in said hub tier;

said hub computer system utilizing said distribution process included in said hub computer system to automatically distribute to said target computer system ones of said file package requests that are requests to remove a particular file package from said target computer system;

said target computer system automatically removing said particular file for each of said ones of said file package requests that are requests to remove a particular file;

said hub computer system utilizing said distribution process within said hub computer system to automatically distribute to said target computer system ones of said file package requests that are requests to install a particular file package on said target computer system;

said target computer system automatically installing said particular file for each of said ones of said file package requests that are requests to install a particular file; and

said removal requests being executed prior to said installation requests.

23. (Currently Amended) A computer program product in a data processing system recordable-type medium for automatically distributing and installing software file packages throughout a multi-tiered computer architecture hierarchy, said hierarchy including a global tier, a hub tier that is below said global tier, and a target tier that is below said hub tier, said computer program product comprising:

instruction means for receiving, within a global computer system that is located in said global tier, a distribution request to distribute a file package to a target computer system that is located in said target tier;

instruction means for starting, by said global computer system, a distribution process in said hub computer system;

instruction means for distributing said file package and an installation process from said global computer system to said hub computer system that is located in said hub tier;

instruction means for automatically distributing said file package and said installation process to said target computer system from said hub computer system utilizing said distribution process; and

instruction means for automatically installing, by said target computer system, said file package utilizing said installation process.

24. (Original) The product according to claim 23, further comprising:

a three-tier *CORBA* network, said *CORBA* network including a hub *CORBA* ORB coupled to a second spoke *CORBA* ORB, and said spoke *CORBA* ORB being coupled to a gateway *CORBA* ORB, wherein said hub *CORBA* ORB occupies said hub tier of said architecture, said spoke *CORBA* ORB occupies a spoke tier of said architecture, said spoke tier between said hub tier and a gateway tier, and said gateway *CORBA* ORB occupies said gateway tier, said gateway tier being located between said gateway tier and said target tier; and

instruction means for coupling said global computer system to said three-tier *CORBA* network, said global computer system occupies a top tier of said architecture over said first tier, said global computer system functioning as a *CORBA* ORB and treating said hub *CORBA* ORB as a managed node.

25. (Original) The product according to claim 23, further comprising: instruction means for assigning a unique request identifier to said distribution request; and

instruction means for tracking processing of said distribution request as it is processed by said global computer system, said hub computer system, and said target computer system using said unique request identifier.

# 26. (Original) The product according to claim 23, further comprising:

instruction means for determining by said global computer system whether said distribution of said file package and said installation process from said global computer system to said hub computer system was successful;

in response to a determination that said distribution was unsuccessful, instruction means for reattempting said distribution.

### 27. (Original) The product according to claim 23, further comprising:

instruction means for including a queue within said global computer system for storing distribution requests;

in response to receiving said distribution request, instruction means for placing said distribution request in said queue; and

instruction means for processing a next request from said queue utilizing said global computer system.

### 28. (Original) The product according to claim 27, further comprising:

instruction means for determining by said global computer system whether said distribution of said file package and said installation process from said global computer system to said hub computer system was successful;

in response to a determination that said distribution was unsuccessful, instruction means for requeueing said distribution request by restoring said distribution request in said queue; and

said global computer system making another attempt to distribute said distribution request without requiring that said distribution request be resubmitted to said global computer system.

### 29. (Original) The product according to claim 23, further comprising:

in response to receiving said distribution request within said global computer system, instruction means for locking, by said global computer system, said hub computer system to prevent said hub computer system from processing other requests while said hub computer system is processing said distribution request.

# 30. (Original) The product according to claim 29, further comprising:

instruction means for locking said hub computer system using a unique request identifier that identifies said distribution request.

# 31. (Original) The product according to claim 29, further comprising:

instruction means for determining whether said hub computer system is available prior to said global computer system locking said hub computer system;

in response to a determination that said hub computer system is unavailable, instruction means for waiting until said hub computer system becomes available; and

in response to a determination that said hub computer system is available, instruction means for locking said hub computer system.

### 32. (Original) The product according to claim 23, further comprising:

instruction means for including a plurality of file package requests within said distribution request, each one of said file package requests being a request to either install a particular file package or remove a particular file package; and

instruction means for including in said distribution request an installation script for each one of said file requests that is a request to install a particular file package.

### 33. (Original) The product according to claim 23, further comprising:

instruction means for receiving, within said global computer system that is located in said global tier, a distribution request to distribute a plurality of file package requests to a target computer system that is in said target tier;

each one of said file package requests being a request to either install a particular file package on said target or to remove a particular file package from said target;

instruction means for including in said distribution request an installation script for each one of said file requests that is a request to install a particular file package;

instruction means for starting, by said global computer system, a distribution process in said hub computer system;

instruction means for distributing said plurality of file packages and an installation process from said global computer system to said hub computer system that is located in said hub tier;

instruction means for utilizing said distribution process within said hub to automatically distribute to said target computer system ones of said file package requests that are requests to remove a particular file package from said target computer system;

instruction means for automatically removing, by said target computer system, said particular file for each of said ones of said file package requests that are requests to remove a particular file;

instruction means for utilizing said distribution process within said hub to automatically distribute to said target computer system ones of said file package requests that are requests to install a particular file package on said target computer system;

instruction means for automatically installing, by said target computer system, said particular file for each of said ones of said file package requests that are requests to install a particular file; and said removal requests being executed prior to said installation requests.